RAW SEQUENCE LISTING

The Biotechnology Systems Branch of the Scientific and Technical Information Center (STIC) no errors detected.

Application Serial Number:	10 723.123
Source:	IFWO.
Date Processed by STIC:	10/26/04
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ENTERED



IFWO

RAW SEQUENCE LISTING DATE: 10/26/2004 PATENT APPLICATION: US/10/723,123 TIME: 10:48:06

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt

Output Set: N:\CRF4\10262004\J723123.raw

```
SEQUENCE LISTING
      4 (1) GENERAL INFORMATION:
C--> 7
            (i) APPLICANT: Akzo Nobel N.V.
W--> 15
            (ii) TITLE OF INVENTION: Coccidiosis vaccines
     17
           (iii) NUMBER OF SEQUENCES: 41
      8
                  (B) STREET: Velperweg 76
      9
                  (C) CITY: Arnhem
     10
                  (E) COUNTRY: The Netherlands
C--> 11
                  (F) ZIP: 6824 BM
C--> 19
             (v) COMPUTER READABLE FORM:
     20
                  (A) MEDIUM TYPE: Floppy disk
     21
                  (B) COMPUTER: IBM PC compatible
     22
                  (C) OPERATING SYSTEM: PC-DOS/MS-DOS
                  (D) SOFTWARE: PatentIn Release #1.0, Version #1.30 (EPO)
     23
      0
            (vi) CURRENT APPLICATION DATA:
                  (A) APPLICATION NUMBER: US/10/723,123
                  (B) FILING DATE: 26-Nov-2003
C--> 0
            (ix) TELECOMMUNICATION INFORMATION:
C--> 12
                  (A) TELEPHONE: 0412 666379
                  (B) TELEFAX: 0412 650592
C--> 13
     26 (2) INFORMATION FOR SEQ ID NO: 1:
             (i) SEQUENCE CHARACTERISTICS:
     2 è
                  (A) LENGTH: 214 amino acids
                  (B) TYPE: amino acid
     30
     31
                  (C) STRANDEDNESS: single
     32
                  (D) TOPOLOGY: linear
     34
            (ii) MOLECULE TYPE: protein
     36
            (v) FRAGMENT TYPE: internal
            (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:
     43 Met Pro Phe Glu Leu Pro Pro Leu Pro Tyr Pro Met Asp Ala Leu Glu
                          5
                                              10
     46 Pro Tyr Ile Ser Lys Glu Thr Leu Glu Tyr His Tyr Gly Lys His His
                     20
     49 Ala Ala Tyr Val Asn Asn Leu Asn Arg Leu Val Glu Gly Lys Pro Glu
                 35
                                      40
     52 Ala Ser Lys Ser Leu Glu Glu Ile Ile Lys Thr Ser Ser Gly Ser Val
                                 55
     55 Leu Asn Asn Ala Gly Gln Ala Trp Asn His Thr Phe Tyr Trp Lys Ser
                             70
                                                  75
     58 Met Arg Pro Ala Ser Ala Gly Gly Pro Pro Gly Ala Pro Gly Gly Gly
```

61 Pro Pro Gly Ala Pro Gly Ala Pro Leu Arg Glu Glu Leu Glu Ser Ala

105

62

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt
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64 Phe Gly Gly Val Glu Lys Phe Arg Glu Ala Phe Ala Ala Ala Ala Ala 120 115 67 Ala His Phe Gly Ser Gly Trp Ala Trp Leu Cys Phe Cys Lys Lys Ser 135 70 Arg Ser Leu Phe Leu Leu Gln Thr His Asp Gly Ala Thr Pro Phe Arg 150 155 73 Asp Asn Pro Asn Cys Ala Pro Leu Leu Thr Cys Asp Leu Trp Glu His 170 76 Ala Tyr Tyr Ile Asp Arg Arg Asn Asp Arg Lys Ser Tyr Leu Asp Ala 180 185 79 Trp Trp Ser Val Val Asn Trp Asp Phe Ala Asn Glu Asn Leu Lys Lys 200 195 82 Ala Met Gln Gly Ser Asp 210 86 (2) INFORMATION FOR SEQ ID NO: 2: (i) SEQUENCE CHARACTERISTICS: (A) LENGTH: 13 amino acids 89 (B) TYPE: amino acid 90 (C) STRANDEDNESS: single 91 (D) TOPOLOGY: linear 92 (ii) MOLECULE TYPE: protein 94 (v) FRAGMENT TYPE: internal 96 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2: 103 Leu Gly Pro Leu Ala Leu Pro Leu Leu Ala Asp Val Arg 5 1 107 (2) INFORMATION FOR SEQ ID NO: 3: (i) SEQUENCE CHARACTERISTICS: 109 (A) LENGTH: 223 amino acids 110 (B) TYPE: amino acid 111 112 (C) STRANDEDNESS: single 113 (D) TOPOLOGY: linear 115 (ii) MOLECULE TYPE: protein (v) FRAGMENT TYPE: internal (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3: 124 Met Pro Leu Asn Leu Gly Asp Ser Phe Pro Asp Phe Gln Ala Glu Ala 5 10 127 Leu Gly Ala Glu His Phe Arg Leu His Glu Tyr Leu Gly Asp Ser Trp 25 130 Gly Val Met Phe Ser His Pro Asn Asp Phe Thr Pro Val Cys Thr Thr 40 133 Glu Leu Ala Glu Ala Val Lys Leu Gln Asp Ser Phe Thr Lys Lys Asn 136 Cys Lys Leu Val Gly Phe Ser Cys Asn Asp Leu Gln Ser His Arg Glu 70 139 Trp Ala Lys Asp Ile Met Ala Tyr Ala Gly Arg Ser Gly Asn Leu Pro 85 90 142 Phe Pro Leu Val Cys Asp Pro Asn Arg Glu Leu Ala Ala Ser Leu Gly 105

145 Ile Met Asp Pro Ala Glu Lys Asp Lys Lys Gly Leu Pro Leu Thr Cys

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```
146
            115
148 Arg Cys Val Phe Phe Ile Ser Pro Glu Lys Lys Leu Ala Ala Ser Ile
        130
                             135
151 Leu Tyr Pro Ala Thr Thr Gly Arg Asn Phe Ala Glu Ile Leu Arg Val
152 145
                         150
                                             155
154 Leu Asp Ser Leu Gln Leu Thr Ala Lys Phe Pro Val Ala Thr Pro Val
                    165
                                         170
157 Asp Trp Thr Ala Gly Ala Lys Cys Cys Val Val Pro Asn Leu Ala Ala
                180
                                     185
160 Glu Glu Ala Gln Arg Leu Leu Pro Lys Gly His Glu Ala Leu Gln Leu
161
            195
                                 200
163 Pro Ser Gly Lys Pro Tyr Leu Arg Leu Thr Pro Asp Pro Arg Gly
        210
                             215
                                                  220
164
167 (2) INFORMATION FOR SEQ ID NO: 4:
         (i) SEQUENCE CHARACTERISTICS:
169
170
              (A) LENGTH: 15 amino acids
171
              (B) TYPE: amino acid
              (C) STRANDEDNESS: single
172
              (D) TOPOLOGY: linear
173
175
        (ii) MOLECULE TYPE: protein
         (v) FRAGMENT TYPE: internal
177
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:
182
         Met Ser Pro Ser Pro Ala Gly Val Ala Glu Tyr Leu Ala Ser Leu
184
185
                          5
                                              10
187 (2) INFORMATION FOR SEQ ID NO: 5:
         (i) SEQUENCE CHARACTERISTICS:
189
              (A) LENGTH: 16 amino acids
190
              (B) TYPE: amino acid
191
192
              (C) STRANDEDNESS: single
193
              (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: protein
195
197
         (v) FRAGMENT TYPE: internal
202
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:
204
         Asn His Ala Glu Phe Asp Pro Ser Gln Thr Glu Val Val Phe Pro
205
                                               10
208 (2) INFORMATION FOR SEQ ID NO: 6:
210
         (i) SEQUENCE CHARACTERISTICS:
211
              (A) LENGTH: 20 amino acids
212
              (B) TYPE: amino acid
213
              (C) STRANDEDNESS: single
214
              (D) TOPOLOGY: linear
216
        (ii) MOLECULE TYPE: protein
218
         (v) FRAGMENT TYPE: internal
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:
223
225
         Val Asp Ser Phe Thr Pro Ser Val Gly Cys Val Phe Ala Gly Met Pro
226
228
         Ala Asp Phe Arg
229
                     20
231 (2) INFORMATION FOR SEQ ID NO: 7:
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Input Set: A:\Sequence Listing 1998-407-FF-SQ.txt
Output Set: N:\CRF4\10262004\J723123.raw

```
(i) SEQUENCE CHARACTERISTICS:
233
               (A) LENGTH: 17 base pairs
234
               (B) TYPE: nucleic acid
235
236
               (C) STRANDEDNESS: double
237
               (D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: DNA (genomic)
239
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:
244
246 GTAAATTGGG ACTTCGC
                                                                       17
248 (2) INFORMATION FOR SEQ ID NO: 8:
         (i) SEQUENCE CHARACTERISTICS:
250
251
               (A) LENGTH: 17 base pairs
252
               (B) TYPE: nucleic acid
253
               (C) STRANDEDNESS: double
               (D) TOPOLOGY: linear
254
256
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:
263 GTAAACTGGG ACTTCGC
                                                                        17
265 (2) INFORMATION FOR SEQ ID NO: 9:
         (i) SEQUENCE CHARACTERISTICS:
267
268
               (A) LENGTH: 17 base pairs
               (B) TYPE: nucleic acid
269
270
              (C) STRANDEDNESS: double
              (D) TOPOLOGY: linear
271
        (ii) MOLECULE TYPE: DNA (genomic)
273
278
        (xi) SEQUENCE DESCRIPTION: SEO ID NO: 9:
280 GTAAATTGGG ACTTCGC
                                                                       17
282 (2) INFORMATION FOR SEQ ID NO: 10:
284
         (i) SEQUENCE CHARACTERISTICS:
285
               (A) LENGTH: 17 base pairs
286
               (B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
287
288
              (D) TOPOLOGY: linear
290
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:
297 GTAAACTGGG ACTTCGC
                                                                        17
299 (2) INFORMATION FOR SEQ ID NO: 11:
301
         (i) SEQUENCE CHARACTERISTICS:
302
              (A) LENGTH: 17 base pairs
              (B) TYPE: nucleic acid
303
304
              (C) STRANDEDNESS: double
305
              (D) TOPOLOGY: linear
307
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:
312
314 GTTAATTGGG ACTTCGC
                                                                        17
316 (2) INFORMATION FOR SEQ ID NO: 12:
318
         (i) SEQUENCE CHARACTERISTICS:
              (A) LENGTH: 17 base pairs
319
320
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
321
```

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt
Output Set: N:\CRF4\10262004\J723123.raw

```
(D) TOPOLOGY: linear
        (ii) MOLECULE TYPE: DNA (genomic)
324
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:
329
331 GTTAACTGGG ACTTCGC
                                                                       17
333 (2) INFORMATION FOR SEQ ID NO: 13:
335
         (i) SEQUENCE CHARACTERISTICS:
336
              (A) LENGTH: 17 base pairs
337
              (B) TYPE: nucleic acid
              (C) STRANDEDNESS: double
338
              (D) TOPOLOGY: linear
339
        (ii) MOLECULE TYPE: DNA (genomic)
341
346
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:
348 GTTAATTGGG ACTTCGC
                                                                      17
350 (2) INFORMATION FOR SEQ ID NO: 14:
         (i) SEQUENCE CHARACTERISTICS:
352
353
              (A) LENGTH: 17 base pairs
              (B) TYPE: nucleic acid
354
355
              (C) STRANDEDNESS: double
              (D) TOPOLOGY: linear
356
358
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 14:
363
365 GTTAACTGGG ACTTCGC
                                                                      17
367 (2) INFORMATION FOR SEQ ID NO: 15:
         (i) SEQUENCE CHARACTERISTICS:
369
370
             (A) LENGTH: 17 base pairs
              (B) TYPE: nucleic acid
371
              (C) STRANDEDNESS: double
372
              (D) TOPOLOGY: linear
373
375
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 15:
382 GTGAATTGGG ACTTTGC
                                                                       17
384 (2) INFORMATION FOR SEQ ID NO: 16:
        (i) SEQUENCE CHARACTERISTICS:
386
387
              (A) LENGTH: 17 base pairs
388
              (B) TYPE: nucleic acid
389
              (C) STRANDEDNESS: double
              (D) TOPOLOGY: linear
390
392
        (ii) MOLECULE TYPE: DNA (genomic)
397
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:
399 GTGAACTGGG ACTTTGC
                                                                       17
401 (2) INFORMATION FOR SEQ ID NO: 17:
403
        (i) SEQUENCE CHARACTERISTICS:
404
              (A) LENGTH: 17 base pairs
405
              (B) TYPE: nucleic acid
406
              (C) STRANDEDNESS: double
407
              (D) TOPOLOGY: linear
409
        (ii) MOLECULE TYPE: DNA (genomic)
        (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 17:
416 GTGAATTGGG ACTTTGC
                                                                      17
```

DATE: 10/26/2004

TIME: 10:48:07

Input Set : A:\Sequence Listing 1998-407-FF-SQ.txt Output Set: N:\CRF4\10262004\J723123.raw L:7 M:220 C: Keyword misspelled or invalid format, [(i) APPLICANT:] of (1) line corrected L:8 M:238 W: Alpha Fields not Ordered, Reordered [(B) STREET:] of (1)(iv) L:11 M:220 C: Keyword misspelled or invalid format, [(F) ZIP:] L:12 M:220 C: Keyword misspelled or invalid format, [(A) TELEPHONE:] L:13 M:220 C: Keyword misspelled or invalid format, [(B) TELEFAX:] L:15 M:238 W: Alpha Fields not Ordered, Reordered [(ii) TITLE OF INVENTION:] of (1) L:19 M:220 C: Keyword misspelled or invalid format, [(v) COMPUTER READABLE FORM:] L:0 M:247 C: Inserted Optional Header Field, [(ix) TELECOMMUNICATION INFORMATION:] L:0 M:249 C: Inserted Mandatory Field, [(vi) CURRENT APPLICATION DATA:] L:0 M:249 C: Inserted Mandatory Field, [(A) APPLICATION NUMBER:] L:0 M:249 C: Inserted Mandatory Field, [(B) FILING DATE:] L:790 M:111 C: (47) String data converted to upper case, L:794 M:111 C: (47) String data converted to upper case, L:798 M:111 C: (47) String data converted to upper case, L:802 M:111 C: (47) String data converted to upper case, L:806 M:111 C: (47) String data converted to upper case, L:810 M:111 C: (47) String data converted to upper case, L:814 M:111 C: (47) String data converted to upper case, L:818 M:111 C: (47) String data converted to upper case, L:822 M:111 C: (47) String data converted to upper case, L:826 M:111 C: (47) String data converted to upper case, L:830 M:111 C: (47) String data converted to upper case, L:834 M:111 C: (47) String data converted to upper case, L:838 M:111 C: (47) String data converted to upper case, L:842 M:111 C: (47) String data converted to upper case, L:844 M:336 W: Invalid Amino Acid Number in Coding Region, SEQ ID:39 L:846 M:111 C: (47) String data converted to upper case, L:890 M:111 C: (47) String data converted to upper case, L:894 M:111 C: (47) String data converted to upper case, L:898 M:111 C: (47) String data converted to upper case, L:902 M:111 C: (47) String data converted to upper case, L:906 M:111 C: (47) String data converted to upper case, L:910 M:111 C: (47) String data converted to upper case, L:914 M:111 C: (47) String data converted to upper case, L:918 M:111 C: (47) String data converted to upper case, L:922 M:111 C: (47) String data converted to upper case, L:926 M:111 C: (47) String data converted to upper case, L:930 M:111 C: (47) String data converted to upper case,

VERIFICATION SUMMARY

PATENT APPLICATION: US/10/723,123

L:934 M:111 C: (47) String data converted to upper case, L:938 M:111 C: (47) String data converted to upper case, L:942 M:111 C: (47) String data converted to upper case,